



# Formolene® MP1845H

## *Metallocene Linear Low-Density Polyethylene (mLLDPE) Resin for Film Extrusion Applications*

Formolene® MP1845H is a metallocene 1-hexene copolymer cast film grade formulated with a high-performance antioxidant package to enhance high-temperature processing. Films made from this resin have outstanding tensile properties, impact and puncture strength. Combining superior properties with excellent drawability, MP1845H is a versatile resin suitable for both monolayer and multilayer packaging, as well as cast stretch film.

### Suggested Applications:

- |                 |                              |                  |
|-----------------|------------------------------|------------------|
| Bags in Box     | Barrier Food Packaging       | Blown Film       |
| Cast Film       | Cast Stretch Film            | Diaper Backsheet |
| Food Packaging  | Form Fill and Seal Packaging | Hygiene Film     |
| Packaging Films | Personal Care                |                  |

### Nominal Values

PROPERTY	ASTM TEST METHOD	ENGLISH		SI	
		Unit	Value	Unit	Value
Base Density	Internal Method	g/cm <sup>3</sup>	0.918	g/cm <sup>3</sup>	0.918
Melt Index (190 °C, 2.16 kg)	D1238	g/10 min	4.5	g/10 min	4.5
Tensile Strength at Yield	D882	psi	1200/1100*	MPa	8.3/7.6*
Tensile Strength at Break	D882	psi	5500/5000*	MPa	38/34*
Tensile Elongation	D882	%	500/700*	%	500/700*
Secant Modulus (1% sec)	D882	kpsi	15/17*	MPa	103/117*
Dart Impact	D1709A	g	140	g	140
Tear Strength	D1922	g	150/300*	g	150/300*
Gloss (45°)	D2457		87		87
Haze	D1003	%	2.2	%	2.2

\* MD/TD measured on cast film (0.8 mil / 20 micron)

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